Index of Claims



| Application No. | Applicant(s)   |
|-----------------|----------------|
| 09/846,588      | GOLDMAN ET AL. |
| Examiner        | Art Unit       |

Quang Nguyen, Ph.D.

1636

√ Rejected
= Allowed

- (Through numeral)
Cancelled

+ Restricted

Non-Elected

I Interference

A Appeal
O Objected

| Claim Date |          |                     |                      |                                                  | Claim               |                 |       | Date     |                 |               |              |               | CI            | aim | Date |             |          |               |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |              |           |          |           |          |
|------------|----------|---------------------|----------------------|--------------------------------------------------|---------------------|-----------------|-------|----------|-----------------|---------------|--------------|---------------|---------------|-----|------|-------------|----------|---------------|----------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|-----------|----------|-----------|----------|
|            | Ι        | 5                   |                      |                                                  |                     |                 |       |          | 5               |               |              |               | TT            |     |      |             |          | П             |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |              |           |          |           | ╗        |
| Final      | Original | /                   |                      |                                                  |                     |                 | ल     | Original | 5               |               |              |               | 1 1           |     |      | ल           | Original | I             |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |              |           |          |           |          |
| ۱Ë         | Ē        | 29                  | ł                    |                                                  |                     |                 | Final | Ę.       | 20/             | - 1           |              |               |               |     |      | Final       | ë        |               |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |              |           |          | -         |          |
|            | 0        | Z                   |                      |                                                  |                     |                 | _     | 0        | 20,             |               |              |               | 1             |     |      | _           | 0        | ı             |          | İ                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |              |           |          |           |          |
|            | 1        | 17                  |                      | -                                                | $\rightarrow$       | -               |       | 51       | 2               | $\dashv$      | +            |               | +             |     |      |             | 101      | $\dashv$      | +        | ╁                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | -            | Н         |          | +         | ᅱ        |
| _          | 2        | 1                   |                      | <del>                                     </del> |                     | -               |       | 52       | 72              |               | +            | +             | ++            |     |      |             | 102      |               |          | +-                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | -            | Н         | +        | $\dashv$  | ᅱ        |
|            | 3        | ╫╴                  | <del> </del>         | <del> </del>                                     |                     | -               |       | 53       | 2               |               |              | +             | ++            | _   |      |             | 102      | $\pm$         | -        | ┼╌                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | -            | H         | $\dashv$ |           |          |
|            | 4        | Н                   |                      | $\vdash$                                         |                     |                 |       | 54       | 7               |               | +            | $\vdash$      | +             | _   |      |             | 103      | $\dashv$      |          | +                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | ├            | Н         | $\dashv$ | $\dashv$  | ᅱ        |
|            | 5        | ₩                   |                      |                                                  |                     | $\dashv$        |       | 55       | ,,,             |               | +            |               | ++            |     |      |             |          |               |          | +                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | ┝            | Н         | -        |           |          |
|            |          | ₩                   | <del>  </del>        | <del>   </del>                                   | $\dashv$            |                 |       |          |                 | _             | +            | -             |               |     |      |             | 105      |               | -        | -                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | ├            |           | -        |           |          |
| -          | 6        | μ,                  |                      |                                                  |                     |                 |       | 56       | H               | -             | +            |               |               |     |      |             | 106      |               |          | $\vdash$                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | $\vdash$     | Н         |          | $\dashv$  | $\dashv$ |
| -          | 7        | V                   |                      |                                                  |                     |                 |       | 57       |                 | _             | -            |               |               |     |      |             | 107      |               |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | <u> </u>     |           | -        |           | ᅴ        |
| <u> </u>   | 8        | ļ                   |                      | $\sqcup \sqcup$                                  | $\rightarrow$       | _               |       | 58       | -               | _             | +            | $\dashv$      | -             |     |      |             | 108      | _             | _        | <u> </u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | <u> </u>     |           |          | _         |          |
|            | 9        | ļ                   |                      |                                                  | $\rightarrow$       | _               |       | 59       | L               |               | 1            |               |               |     |      |             | 109      |               |          | ļ                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | <u> </u>     |           | $\dashv$ | _         | _        |
|            | 10       | <del>  -</del>      |                      | $\sqcup \sqcup$                                  | $\dashv$            | _               |       | 60       | Ш               |               | $\perp$      | L             | 4-4           |     |      |             | 110      | $\rightarrow$ |          | ļ                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | <del> </del> | Ш         | _        | _         | Ц        |
|            |          | 7                   |                      | $\sqcup \sqcup$                                  | ++                  | _ :::::         |       | 61       | $\sqcup$        | $\perp$       | $\perp$      |               | 1             |     |      |             | 111      |               |          | ļ                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | <u> </u>     | $\sqcup$  | _        | _         | _        |
|            | 12       | <u>L</u>            |                      |                                                  |                     |                 |       | 62       | Ш               |               | Ш            | $\sqcup \bot$ | $\perp \perp$ |     |      |             | 112      |               | 4        | ļ                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | _            | Ш         | $\perp$  |           | ]        |
|            | 13       | V                   |                      | $\Box$                                           | $\bot \bot$         | _               |       | 63       | Ш               |               |              |               | $\perp \perp$ |     |      |             | 113      |               | $\perp$  | $oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{ol}}}}}}}}}}}}}}}}}}$ | $oxed{oxed}$ | Ш         |          |           |          |
|            | 14       | 1                   |                      | $\sqcup \sqcup \bot$                             | $\perp$             | _ ::::          |       | 64       | Ш               |               |              |               |               |     |      |             | 114      |               |          | L                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | $\Box$       | $\square$ |          |           |          |
|            | 15       | Ш                   |                      |                                                  |                     |                 |       | 65       |                 |               |              |               |               |     |      |             | 115      | .             |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |              |           |          |           |          |
|            | 16       | Ш                   |                      |                                                  |                     |                 |       | 66       |                 |               |              |               |               |     |      |             | 116      |               |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | ľ            |           |          |           |          |
|            | 17       |                     |                      |                                                  |                     |                 |       | 67       |                 |               |              |               |               |     |      |             | 117      |               |          | Π                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |              |           |          |           |          |
|            | 18       | П                   |                      |                                                  |                     |                 |       | 68       |                 |               | Ι.           |               |               |     |      |             | 118      |               |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |              |           |          | $\neg$    |          |
|            | 19       | V                   |                      |                                                  |                     |                 |       | 69       |                 |               |              |               |               |     |      |             | 119      |               | <b>—</b> |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Г            |           |          | _         |          |
|            | 20       |                     |                      |                                                  |                     |                 |       | 70       |                 |               |              |               |               |     |      |             | 120      | 一             |          | 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |              | П         | $\neg$   |           |          |
|            | 21       |                     |                      |                                                  | -1                  |                 |       | 71       |                 |               |              |               | 11            |     |      |             | 121      | 十             | _        | T                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |              | Н         | -        | _         | $\dashv$ |
|            | 22       | Г                   |                      |                                                  | 111                 |                 |       | 72       | 11              |               | $\Box$       |               | 1             |     |      |             | 122      | $\dashv$      |          | $\vdash$                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | H            |           |          | _         | $\dashv$ |
|            | 23       | N                   |                      |                                                  |                     | 7               |       | 73       | $\vdash$        |               | +            | -             | +             | +   |      |             | 123      |               |          | $\vdash$                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | $\vdash$     |           | _        | +         | ᅱ        |
|            | 24       | <u> </u>            | <del></del>          |                                                  |                     |                 |       | 74       | H               |               | 1-1          | +             | ++            |     |      |             | 124      |               |          | $\vdash$                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |              | $\vdash$  | $\dashv$ | +         | $\dashv$ |
|            | 25       |                     |                      |                                                  |                     |                 |       | 75       |                 |               | +            |               | +             | -   |      |             | 125      |               | _        | ⊢                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | -            | -         | -        | +         | $\dashv$ |
|            | 26       | ┢╾                  |                      |                                                  |                     | -               |       | 76       |                 | -             | $\vdash$     |               | ++            |     |      |             | 126      | $\dashv$      | -        | ├-                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | -            | $\dashv$  | $\dashv$ | $\dashv$  | $\dashv$ |
|            | 27       | <del> </del>        |                      |                                                  | ++                  | $\dashv \sqcup$ |       | 77       | $\vdash$        |               | +            |               | +             |     |      |             | 127      | $\dashv$      | +        | ┼                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | $\vdash$     | $\dashv$  | $\dashv$ |           |          |
|            | 28       | 1.7                 |                      | ++                                               | -+-+                |                 |       | 78       | -               | $\rightarrow$ | +            |               | +             | -   |      | _           | 128      | $\dashv$      |          | ├-                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |              | $\dashv$  |          | $\dashv$  | ᅴ        |
|            | 29       | V                   | <del></del>          | -                                                |                     |                 |       | 79       |                 |               | +            |               | +-+           |     |      |             |          | $\dashv$      | _        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | -            |           |          | -         | $\dashv$ |
|            | 30       | V                   | <del>-  -  -  </del> |                                                  |                     |                 |       |          | <del>  </del>   | -             | +            |               | +             |     |      |             | 129      | $\dashv$      | +        | ├                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | <u> </u>     |           | 4        | _         |          |
| $\vdash$   |          | Y                   |                      |                                                  | +                   |                 |       | 80       | $\vdash$        | -             | 1-1          | -             | +             | _   |      |             | 130      | _             |          | -                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |              |           | -        | $\dashv$  | -1       |
|            | 31       | 22                  |                      |                                                  |                     | -               |       | 81       |                 | +             |              |               | 1             |     |      |             | 131      |               |          | ▙                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |              |           |          |           | 4        |
| -          | 32       | ١V                  | $\leftarrow$         | $\longrightarrow$                                | +++                 |                 |       | 82       |                 |               | +            |               | +-+           |     |      |             | 132      | -             |          | _                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |              | <u> </u>  | _        | _         | _        |
| $\vdash$   | 33       | V                   |                      |                                                  | ++                  |                 |       | 83       | $\sqcup$        |               | +            | $\perp$       | +             |     |      |             | 133      | _             |          | ـــــ                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |              |           | _        | _         | $\dashv$ |
| $\vdash$   | 34       | 1                   | $\square$            | <del>                                     </del> |                     | - :::           |       | 84       | $\sqcup$        | $\dashv$      | -            | _             | +             |     |      |             | 134      |               | $\perp$  | ↓_                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |              | ,         | _        | _         | $\dashv$ |
| $\vdash$   | 35       | Н.                  |                      | $\sqcup \sqcup \bot$                             |                     | -               |       | 85       | $\sqcup$        | $\dashv$      |              | -             | +             |     |      |             | 135      | 4             |          | 1_                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |              |           | _        | _         | _        |
| <u> </u>   | 36       | $oldsymbol{\sqcup}$ |                      |                                                  | -                   | -               |       | 86       | $\sqcup$        |               | 1            |               | $\bot \bot$   |     |      |             | 136      | _             | _        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |              |           |          | $\perp$   | $\perp$  |
| <u></u>    | 37       | Ц,                  |                      | $\sqcup \bot \bot$                               | $\bot \bot$         | _               |       | 87       | $\sqcup$        | _             | $\perp$      |               | 11            |     |      |             | 137      |               |          | $\perp$                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |              |           |          | $\perp$   |          |
| L          | 38       | V                   |                      |                                                  | $\bot\bot$          |                 |       | 88       | $\sqcup$        | _             | 1            | $\perp$       |               |     |      |             | 138      |               |          | $oxedsymbol{oxed}$                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | $\Box$       | ot        |          |           |          |
| igsquare   | 39       |                     |                      |                                                  | $\perp \perp \perp$ |                 |       | 89       | Ш               |               | $oxed{oxed}$ |               |               |     |      | ]           | 139      | $\Box$        |          | L                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |              |           |          | $_{ m I}$ |          |
|            | 40       |                     |                      |                                                  |                     |                 |       | 90       |                 |               |              |               |               |     |      | ]           | 140      | $\Box$        |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |              |           |          | $\Box$    |          |
|            | 41       |                     |                      |                                                  |                     |                 |       | 91       |                 |               | $oxed{\Box}$ | $\Box \Box$   |               |     |      |             | 141      | T             |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |              |           |          | _T        | 긔        |
|            | 42       | 7                   |                      |                                                  |                     |                 |       | 92       |                 |               |              | $\Box \Gamma$ |               |     |      |             | 142      |               | T        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |              |           | $\Box$   | Π         |          |
|            | 43       | Ŀ                   |                      |                                                  |                     |                 |       | 93       |                 |               |              |               | $\Box$        |     |      |             | 143      | $\top$        |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | П            | П         | $\neg$   | $\sqcap$  | コ        |
|            | 44       | V                   |                      |                                                  |                     |                 |       | 94       |                 | $\top$        |              |               |               |     |      |             | 144      | $\neg$        |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |              |           | $\neg$   |           | ٦        |
|            | 45       | V                   |                      |                                                  |                     |                 |       | 95       |                 | 1             | П            |               | $\top$        |     |      |             | 145      |               |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | П            | $\neg$    | 7        |           | ヿ        |
|            |          | /                   |                      |                                                  |                     |                 |       | 96       | П               |               | $\Box$       | $\top$        | $\top$        |     |      | $\neg \neg$ | 146      | 寸             |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | П            |           | T        | T         | ᅦ        |
|            | 47       |                     |                      |                                                  | 11                  |                 |       | 97       |                 | $\neg$        | $\Box$       |               | 1 1           |     |      |             | 147      | $\dashv$      | $\top$   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | М            | $\Box$    | $\dashv$ | $\dashv$  | ㅓ        |
|            | 48       |                     | 7                    |                                                  |                     | 7               |       | 98       |                 |               | $\Box$       |               | 11            |     | i    |             | 148      | +             | $\top$   | $\vdash$                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | $\vdash$     | $\vdash$  | _        | -+        | $\dashv$ |
|            |          | マ                   |                      |                                                  |                     | <b>-</b>        |       | 99       | $\Box$          | $\neg$        |              |               | +             |     |      |             | 149      | $\dashv$      | +        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Н            |           | $\dashv$ | $\dashv$  | ヿ        |
|            | 50       | 7                   | $\neg$               |                                                  | ++                  | <b>-</b>        |       | 100      | $\vdash \vdash$ | $\neg +$      | +            | $\dashv$      | +             |     |      |             | 150      | _             | +        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | $\vdash$     | -         | $\dashv$ | 十         | $\dashv$ |
|            |          | لسنب                |                      |                                                  |                     |                 |       |          |                 |               | 1 1          |               |               |     |      |             |          | I             | - 1      | 1 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | ı I          | - 1       |          |           | - 1      |